

Claims:

1. A receptacle connector for effecting an electrical connection between an integrated circuit package having a plurality of contacts disposed thereon, and a printed circuit board having a plurality of contact pads formed thereon, the receptacle connector comprising:

5 an insulative connector housing for interposing between the integrated circuit package and the printed circuit board in use, the connector housing including a plurality of cavities formed therein, each of the cavities opening to opposite surfaces of said connector housing ; and,

10 a plurality of conductive terminals embedded in said connector housing, each of the terminals being disposed in a single one of said cavities, the terminals including body portions extending across connector housing cavities, the terminal body portions having a plurality of edges, said terminals including pairs of terminal retention members disposed along two opposing edges of said body portions, the terminal retention members extending into said connector housing to thereby hold said terminals in place, at least one of said terminal retention member including a retention stub formed by bending said terminal upon itself, said terminals further including contact arms that extend away from said terminal body portions and project exterior of said connector housing for contacting said contacts or contact pads.

2. The receptacle connector according to claim 1, wherein each of said terminals includes a retention stub as one of its retention members and further includes a retention arm as the other of its said two retention members, said retention stub and arm extending away from said terminal body portion in different directions.

- 20 21 3. The receptacle connector of claim 2, wherein said terminal body portion extends in a horizontal plane within said connector housing cavity and said retention arm extends in a vertical plane away from said terminal body portion and said retention stub extends away from said terminal body portion in a horizontal plane.

4. The receptacle connector of claim 3, wherein said terminal retention arm and stubs are embedded in said connector housing.
5. The receptacle connector of claim 1, wherein a portion of each said terminal is folded upon itself to define a U-shaped bend in said terminal, the U-bend defining said terminal retention stub of said terminal.
6. The receptacle connector according to claim 1, wherein each of said terminals includes a spherical contact applied to said terminal and disposed on a side thereof opposite said contact arm.
7. The receptacle connector according to claim 1, wherein each of said retention members includes a retention stub and said two retention stubs extend away from said terminal body portion in different directions.
8. The receptacle connector according to claim 7, wherein said terminal body portion extends in a horizontal plane and each of said retention stubs extend away from said terminal body portion in horizontal planes.
9. The receptacle connector according to claim 3, wherein each said retention arm and retention stubs are disposed perpendicular to each other.
10. The receptacle connector according to claim 6, wherein said spherical contact includes a solder ball and a portion of the solder ball extends past an adjacent surface of said connector housing and said contact arm extends past an opposite surface of said connector housing.
11. The receptacle connector according to claim 1, wherein each of said contact arms extends obliquely away from said body portion, beginning at said retention stub and terminating in a free end that is spaced apart from a central portion of said body portion.
12. A connector for connecting together an integrated circuit package having a plurality of

contacts disposed thereon, and a printed circuit board having a plurality of contact pads formed thereon, the connector comprising:

an insulative housing having a plurality of sidewalls that cooperatively define a receptacle of said connector for receiving the integrated circuit package, the connector housing including a plurality of terminal-receiving cavities formed therein and arranged within the receptacle, each of the terminal-receiving cavities opening to opposite surfaces of said housing ; and,

a plurality of conductive terminals disposed in said terminal-receiving cavities, a single one of the terminals being disposed in a single cavity, each of the terminals including: a terminal body portion extending horizontally within its associated terminal-receiving cavity, the terminal body portion having a plurality of edges, two terminal retention members disposed along two opposing edges of said body portion and a contact arm that extend away from said terminal body portion and projecting exterior of said connector housing, the two terminal retention members being embedded in said housing to thereby hold said terminal in place within said housing and in said terminal-receiving cavity, at least one of said terminal retention members including a retention stub formed by bending said terminal upon itself at one of said two opposing edges of terminal body portion.

13. The connector according to claim 12, wherein each of said terminals further includes a retention arm as the other of its said two retention members, said retention stub and arm extending away from said terminal body portion in different directions.
14. The receptacle connector of claim 12, wherein said terminal body portion extends in a horizontal plane within said terminal-receiving cavity and said retention arm extends in a vertical plane away from said terminal body portion and said retention stub extends away from said terminal body portion in a horizontal plane.
15. The receptacle connector of claim 12, wherein a portion of each said terminal is folded upon itself to define a U-shaped bend in said terminal, the U-bend defining said terminal retention stub.

16. The receptacle connector according to claim 12, wherein each of said terminals includes a spherical contact applied to said terminal and disposed on a side thereof opposite said contact arm.
17. The receptacle connector according to claim 12, wherein said retention members include two retention stubs that extend away from said terminal body portion in different directions.
18. The receptacle connector according to claim 17, wherein said terminal body portion extends in a horizontal plane and each of said retention stubs extend away from said terminal body portion in horizontal planes.